

Professional Audio Service Bulletin

Mincom
Division **3M**
COMPANY

Bulletin No. 18

SUBJECT: Installation of Replacement Capstan Motor Assemblies
Cat. No. 83-5920-2020

APPLICABLE TO: 8, 16 and 24 Track M-79 Recorders

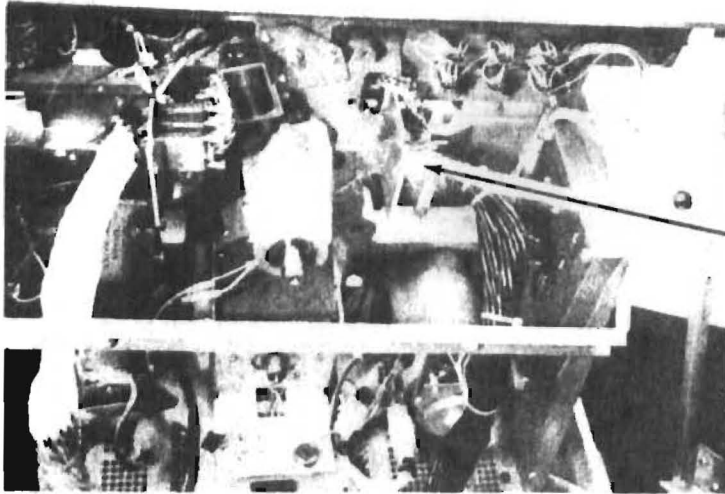
PURPOSE: Modify Head Connector Mounting to Minimize Motor
Noise Pickup by Head Cables.

PROCEDURE:

1. Remove old motor assembly as follows:
 - a. Remove four 4-40 screws securing belt guard and remove bottom half of belt guard.
 - b. Remove capstan drive belt.
 - c. Remove screw securing flywheel and remove flywheel (holding capstan on top of transport to prevent its turning).
 - d. Remove upper half of belt guard by removing screws securing it.
 - e. Disconnect capstan motor connector J-7.
 - f. Remove two cable clamps which secure head cables to motor assembly. (Save clamps)
 - g. Remove capstan motor assembly by removing four screws securing it to transport (2 screws on each side).
2. Removal of old head connector brackets. (Complete work on reproduce bracket before starting on record side.)
 - a. Disconnect head connector(s) and move aside.
 - b. Remove three screws holding reproduce connector bracket to transport. Save screws for reuse in step 3b.
 - c. Remove and save 2-56 posts and nuts securing connector(s) to bracket. Make a note of male post location in reference to pin number on connector, for ease in reassembly.
 - d. Old bracket will have to be cut in order to remove connector(s). Be careful head cable is not nicked.

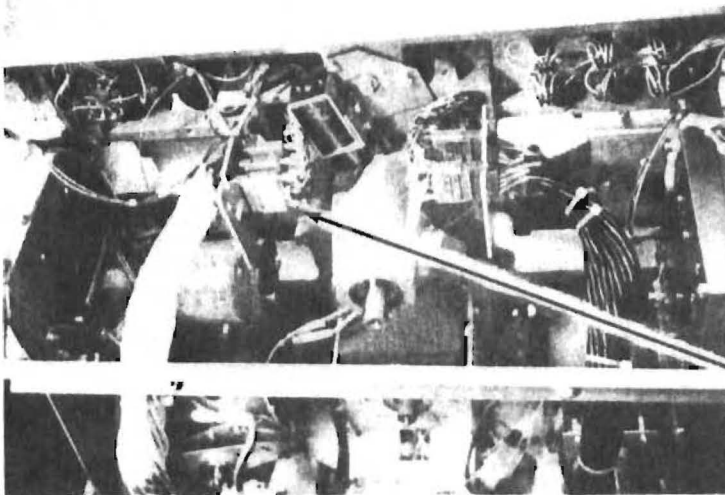
3. Installation of new head connector brackets, 83-3320-2963 right bracket and 83-3320-2964 left bracket.
 - a. Mount connector(s) on new bracket in reverse order of removal making sure of locator pin position as noted in step 2c.
 - b. Install new bracket assembly onto transport. (Figure 1)
 - c. Reconnect head connector(s). (Figure 2)
4. Repeat steps 2 and 3 above for bracket on record side.
5. Install replacement capstan motor assembly leaving mounting screws loose.
6. Reinstall top half of belt cover.
7. Reconnect motor connector - J-7.
8. Reinstall flywheel - hold capstan to prevent turning.
9. Reinstall capstan belt and refer to section 4-30 of the manual for belt tension adjustment.
10. Reinstall lower belt cover.
11. Install head cable mounting bracket 83-3320-2962 as shown (Figure 3). Use existing screw on right side, use 8-32 x 1/2" screw on left side.
12. Attach head cables to bracket using clamps removed in step 1f. Use 10-32 hardware furnished (Figure 3).
13. Install a spring from each head cable bundle to rear of transport wrap around (See Figure 3).
14. Remove transport cover (scalp plate) to allow access to capstan servo p.c. brd.
15. Perform servo adjustments in sections 4-16 and 4-17 of manual - refer to section 4-18 to change speed range if necessary.
16. Replace transport cover.

Figure 1



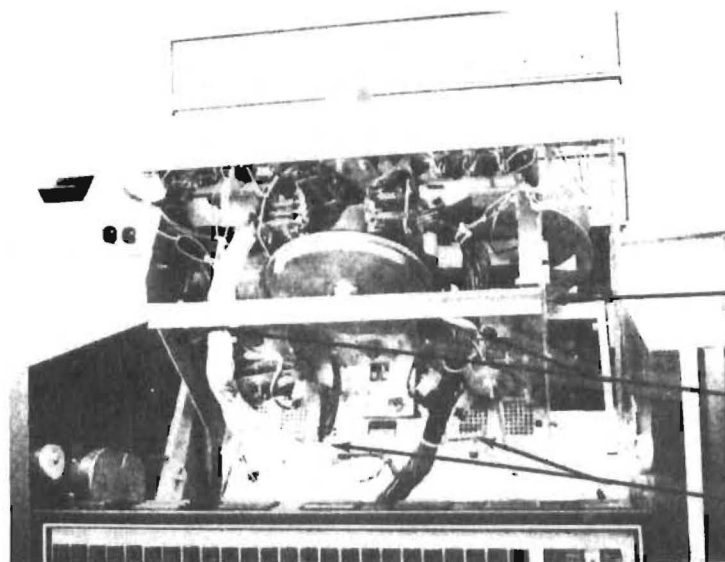
Arrow points to
reproduce-connector
mtg bracket

Figure 2



Arrow shows head
connectors reconnected

Figure 3



Head cable support
bracket

Head cable clamp

Head cable slack
preventing springs

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BLE TO: 8, 16 and 24 Track M-79 Recorders

: Modify Head Connector Mounting to Minimize Motor
Noise Pickup by Head Cables.

RE:

Remove old motor assembly as follows:

- a. Remove four 4-40 screws securing belt guard and remove bottom half of belt guard.
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- d. Remove upper half of belt guard by removing screws securing it.
- e. Disconnect capstan motor connector J-7.
- f. Remove two cable clamps which secure head cables to motor assembly. (Save clamps)
- g. Remove capstan motor assembly by removing four screws securing it to transport (2 screws on each side).

Removal of old head connector brackets. (Complete work on reproduce bracket before starting on record side.)

- a. Disconnect head connector(s) and move aside.
- b. Remove three screws holding reproduce connector bracket to transport. Save screws for reuse in step 3b.
- c. Remove and save 2-56 posts and nuts securing connector(s) to bracket. Make a note of male post location in reference to pin number on connector, for ease in reassembly.
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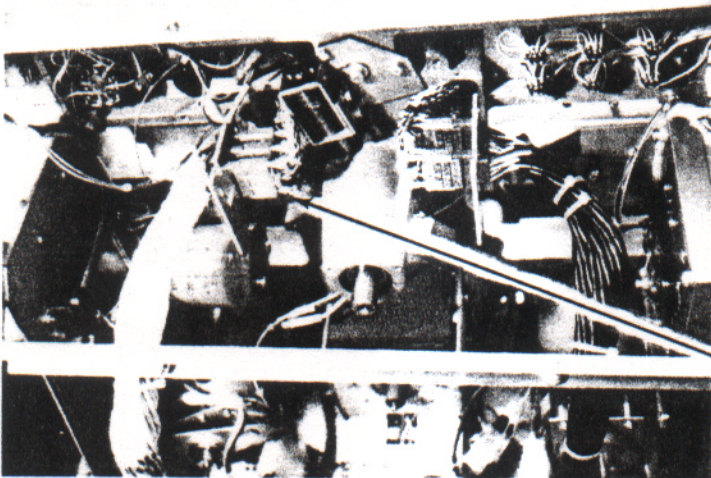
3. Installation of new head connector brackets, 83-3320-2963 right bracket and 83-3320-2964 left bracket.
 - a. Mount connector(s) on new bracket in reverse order of removal making sure of locator pin position as noted in step 2c.
 - b. Install new bracket assembly onto transport. (Figure 1)
 - c. Reconnect head connector(s). (Figure 2)
4. Repeat steps 2 and 3 above for bracket on record side.
5. Install replacement capstan motor assembly leaving mounting screws loose.
6. Reinstall top half of belt cover.
7. Reconnect motor connector - J-7.
8. Reinstall flywheel - hold capstan to prevent turning.
9. Reinstall capstan belt and refer to section 4-30 of the manual for belt tension adjustment.
10. Reinstall lower belt cover.
1. Install head cable mounting bracket 83-3320-2962 as shown (Figure 3). Use existing screw on right side, use 8-32 x 1/2" screw on left side.
2. Attach head cables to bracket using clamps removed in step 1f. Use 10-32 hardware furnished (Figure 3).
3. Install a spring from each head cable bundle to rear of transport wrap around (See Figure 3).
4. Remove transport cover (scalp plate) to allow access to capstan servo p.c. brd.
5. Perform servo adjustments in sections 4-16 and 4-17 of manual - refer to section 4-18 to change speed range if necessary.
6. Replace transport cover.

Figure 1



Arrow points to
reproduce-connector
mtg bracket

Figure 2



Arrow shows head
connectors reconnected

Figure 3



Lead cable support
bracket

Head cable clamp

Head cable slack
preventing springs